

**Commonwealth of Kentucky
Energy and Environment Cabinet
Department for Environmental Protection
Division for Air Quality
200 Fair Oaks Lane, 1st Floor
Frankfort, Kentucky 40601
(502) 564-3999**

Final

**AIR QUALITY PERMIT
Issued under 401 KAR 52:020**

Permittee Name: Equitable Gathering, LLC –Sweet Gum
Compressor Station
Mailing Address: P. O. Box 158, Pikeville, KY 41502

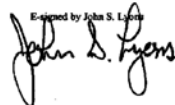
Source Name: Equitable Gathering, LLC –Sweet Gum
Compressor Station
Mailing Address: Same as above
Source Location: 60 Lubert Drive, Hindman, KY 41822

Permit: G-06-001 R1 General Permit for Natural Gas
Transmission Stations and Processing Plants
Agency Interest: 9427
Activity: APE20090001
Review Type: Title V, Operating
Source ID: 21-119-00042

Regional Office: Hazard
233 Birch Street, STE 2
Hazard, KY 41701
(606) 435-6022

County: Knott

Application
Complete Date: February 12, 2009
Issuance Date: 8/2/2006
Revision Date: February 19, 2009
Expiration Date: 8/1/2011

E-signed by John S. Lyons


**John S. Lyons, Director
Division for Air Quality**

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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and received a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

[01] Natural Gas Fired Indirect Heat Exchanger unit

Rated heat input capacity: Greater than or equal to 10 million Btu per hour but less than or equal to 100 million Btu per hour, commenced before April 9, 1972.

APPLICABLE REGULATIONS:

401 KAR 61:015, Existing indirect heat exchangers.

1. Operating Limitations: None

2. Emission Limitations:

Particulates and Opacity:

The Total Heat Input Capacity (X), in units of millions of Btu per hour, refers to all affected facilities commenced before April 9, 1972, within the entire source. The emission limitations for particulates are displayed in units of pounds per million Btu, based on a three-hour average.

Priority I: Pursuant to State Regulation 401 KAR 50:020, Air Quality Control Regions, Paducah-Cairo (072), Huntington-Ashland (103), Evansville-Henderson (077) and Cincinnati (079) regions are Priority I regions.

Parameter	Allowable Limit
Particulate Emissions (Pounds/million Btu)	$0.9634 * X^{-0.2356}$
Opacity	20%

Priority II: Pursuant to State Regulation 401 KAR 50:020, Air Quality Control Regions, Bluegrass (102), Appalachian (101), and North Central (104) regions are Priority II regions.

Parameter	Allowable Limit
Particulate Emissions (Pounds/million Btu)	$1.2825 * X^{-0.2330}$
Opacity	40%

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Priority III: Pursuant to State Regulation 401 KAR 50:020, Air Quality Control Regions, South Central (105) region is a Priority III region.

Parameter	Allowable Limit
Particulate Emissions (Pounds/million Btu)	$1.3152 * X^{-0.2159}$
Opacity	40%

Sulfur Dioxide:

The Total Heat Input Capacity (X), in units of millions of Btu per hour, refers to that of all affected facilities commenced before April 9, 1972, within the entire source. The emission limitations for sulfur dioxide are displayed in units of pounds per million Btu, based on a twenty-four-hour average.

Kentucky County	Class
McCracken	IA
Bell, Clark, Woodford	II
Pulaski	III
Webster, Hancock	IV
Muhlenberg	IVA
Boyd	VA
All other counties	V

County Class	Allowable Emission Limit (Pounds/million Btu)
IA	$7.7223 * X^{-0.4106}$
II	$8.0681 * X^{-0.3047}$
III	$7.7966 * X^{-0.2291}$
IV	$7.3639 * X^{-0.1347}$
IVA	$7.3639 * X^{-0.1260}$
VA	$8.0189 * X^{-0.1260}$
V	$8.0189 * X^{-0.1260}$

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**Compliance Demonstration Method:**

- Compliance with the particulate matter allowable standard shall be demonstrated by calculating particulate matter emissions using fuel usage rate and emission factor information.
- Compliance with the sulfur dioxide allowable standard shall be demonstrated by calculate sulfur dioxide emissions using fuel usage rate, fuel analysis, and emission factor information.
- Compliance with the opacity standard shall be demonstrated by burning only natural gas.

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| 3. | <u>Testing Requirements:</u> | None |
| 4. | <u>Specific Monitoring Requirements:</u> | Refer to Section F. |
| 5. | <u>Specific Recordkeeping Requirements:</u> | Refer to Section F. |
| 6. | <u>Specific Reporting Requirements:</u> | Refer to Section F. |
| 7. | <u>Specific Control Equipment Operating Conditions:</u> | None |
| 8. | <u>State-Origin Requirements:</u> | None |
| 9. | <u>Alternate Operating Scenarios:</u> | None |
| 10. | <u>Compliance Schedule:</u> | Refer to Section F.9 and Section I. |
| 11. | <u>Compliance Certification Requirements</u> | Refer to Section F.9 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

[02] Natural Gas Fired Indirect Heat Exchanger unit

Rated heat input capacity: Greater than or equal to 10 million Btu per hour but less than 100 million Btu per hour, commenced on or after April 9, 1972 and prior to June 9, 1989.

APPLICABLE REGULATIONS:

401 KAR 59:015, New indirect heat exchangers

1. Operating Limitations: None

2. Emission Limitations:

Pollutant	Particulates ⁽¹⁾	Sulfur Dioxide ⁽¹⁾
Emission Limitation (lb/mmBtu)	$0.9634 * C^{-0.2356}$	$7.7223 * C^{-0.4106}$

C = Total Heat Input Capacity (in millions of BTU per hour)

⁽¹⁾ The Total Heat Input Capacity refers to that of all affected facilities within the entire source.

Opacity:

Emissions shall not exhibit an opacity exceeding 20% except a maximum of 40% shall be permissible for not more than six consecutive minutes in any 60 consecutive minutes during cleaning the fire box or blowing soot.

Compliance Demonstration Method:

- Compliance with the particulate matter allowable standard shall be demonstrated by calculating particulate matter emissions using fuel usage rate and emission factor information.
- Compliance with the sulfur dioxide allowable standard shall be demonstrated by calculating sulfur dioxide emissions using fuel usage rate, fuel analysis, and emission factor information.
- Compliance with opacity standard shall be demonstrated by burning only natural gas.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**3. Testing Requirements:**

Pursuant to 401 KAR 59:015, Section 8, compliance with the standards for particulate matter, sulfur dioxide and nitrogen oxides shall be demonstrated upon request from the Division by reference methods contained in 40 CFR 60 Appendix A except as provided in 401 KAR 50:045. Exceptions from the reference methods are provided in 401 KAR 50:045, Section 3(2):

- (a) The Cabinet specifies or approves minor changes in methodology;
- (b) The Cabinet specifies or approves the use of some other method the results of which it has determined to be adequate for indicating whether a specific source is in compliance; or
- (c) The Cabinet waives the requirement for performance tests because the Permittee of the affected facility has demonstrated to the Cabinet's satisfaction that:
 - 1. The affected facility is in compliance with the applicable standard; or
 - 2. In the case of an existing affected facility, the test cannot be performed by a source due to physical plant limitations or extreme economic burden. The burden of proof for an alleged "economic burden" is to be borne by the source.

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| 4. <u>Specific Monitoring Requirements:</u> | Refer to Section F. |
| 5. <u>Specific Recordkeeping Requirements:</u> | Refer to Section F. |
| 6. <u>Specific Reporting Requirements:</u> | Refer to Section F. |
| 7. <u>Specific Control Equipment Operating Conditions:</u> | None |
| 8. <u>State-Origin Requirements:</u> | None |
| 9. <u>Alternate Operating Scenarios:</u> | None |
| 10. <u>Compliance Schedule:</u> | Refer to Section F.9 and Section I. |
| 11. <u>Compliance Certification Requirements</u> | Refer to Section F.9 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

[03] Natural Gas Fired Indirect Heat Exchanger unit

Rated heat input capacity: Greater than or equal to 10 million BTU per hour but less than 100 million Btu per hour, commenced on or after June 9, 1989.

APPLICABLE REGULATIONS:

401 KAR 59:015, New indirect heat exchangers.

401 KAR 60:005 incorporating 40 CFR 60 Subpart Dc, Standards of performance for small industrial-commercial-institutional steam generating units, by reference.

1. Operating Limitations:

None

2. Emission Limitations:

Pollutant	Particulates ⁽¹⁾	Sulfur Dioxide ⁽¹⁾
Emission Limit for units constructed, reconstructed or modified before February 28, 2005. (lb/mmBtu)	$0.9634 * C^{-0.2356}$	$7.7223 * C^{-0.4106}$
Emission Limit for units with 30 mmBtu/hr or greater heat input capacity which commenced construction, reconstruction, or modification after February 28, 2005. (lb/mmBtu)	0.030 or alternative 40 CFR 60.43c (e)(2)	$7.7223 * C^{-0.4106}$
Emission Limit for units with heat input capacity less than 30 mmBtu/hr which commenced construction, reconstruction, or modification after February 28, 2005. (lb/mmBtu)	$0.9634 * C^{-0.2356}$	$7.7223 * C^{-0.4106}$

C = Total Heat Input Capacity (in millions of BTU per hour)

(1) The Total Heat Input Capacity refers to that of all affected facilities within the entire source from 401 KAR 59:015.

(2) Particulate limit, 0.030 lb/mmBtu, from 40 CFR 60 Subpart Dc.

Opacity:

Emissions shall not exhibit an opacity exceeding 20% except a maximum of 40% shall be permissible for not more than six consecutive minutes in any 60 consecutive minutes during cleaning the fire box or blowing soot.

Compliance Demonstration Method:

- Compliance with the particulate matter allowable standard shall be demonstrated by calculating particulate matter emissions using fuel usage rate and emission factor information. For units subject to the 0.030 lb/mmBtu of particulate matter, see **3. Testing Requirements**.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- Compliance with the sulfur dioxide allowable standard shall be demonstrated by calculating sulfur dioxide emissions using fuel usage rate, fuel analysis, and emission factor information.
- Compliance with opacity standard shall be demonstrated by burning only natural gas.

3. Testing Requirements:

- a. Pursuant to 401 KAR 59:015, Section 8, compliance with the standards for particulate matter, sulfur dioxide and nitrogen oxides shall be demonstrated upon request from the Division by reference methods contained in 40 CFR 60 Appendix A except as provided in 401 KAR 50:045. Exceptions from the reference methods are provided in 401 KAR 50:045, Section 3(2):
 - i. The Cabinet specifies or approves minor changes in methodology;
 - ii. The Cabinet specifies or approves the use of some other method the results of which it has determined to be adequate for indicating whether a specific source is in compliance; or
 - iii. The Cabinet waives the requirement for performance tests because the Permittee of the affected facility has demonstrated to the Cabinet's satisfaction that:
 1. The affected facility is in compliance with the applicable standard; or
 2. In the case of an existing affected facility, the test cannot be performed by a source due to physical plant limitations or extreme economic burden. The burden of proof for an alleged "economic burden" is to be borne by the source.
- b. Pursuant to 40 CFR 60.45c (a), for units subject to the 0.030 lb/mmBtu of particulate matter limit, the permittee shall conduct initial performance test as described in 40 CFR 60.8, and subsequent performance tests as requested by the Division.

4. Specific Monitoring Requirements:

Refer to Section F.

5. Specific Recordkeeping Requirements:

Maintain monthly records of the amount of fuel combusted. [40 CFR 60.48c (g)]

6. Specific Reporting Requirements:

Refer to Section F.

7. Specific Control Equipment Operating Conditions:

None

8. State-Origin Requirements:

None

9. Alternate Operating Scenarios:

None

10. Compliance Schedule:

Refer to Section F.9 and Section I.

11. Compliance Certification Requirements

Refer to Section F.9 and Section I.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- [04] **2-Cycle Lean Burn Natural Gas Fired Reciprocating Compressor**
4-Cycle Lean Burn Natural Gas Fired Reciprocating Compressor
4-Cycle Rich Burn Natural Gas Fired Reciprocating Compressor
Natural Gas Fired Standby Generator

APPLICABLE REGULATIONS:

40 CFR 63 Subpart ZZZZ, National Emission Standards for Hazardous Pollutants for Stationary Reciprocating Internal Combustion Engines, applies to stationary reciprocating internal combustion engines (RICE) located at major sources of HAPs and meet the applicability requirements defined in 40 CFR 63.6590 of Subpart ZZZZ.

401 KAR 63:020, Potentially hazardous matter or toxic substances.

1. Operating Limitations:

- a. Each Stationary engine which meets the criteria given in 40 CFR 63.6590 is subject to the requirements of Subpart ZZZZ and shall comply with applicable operating limitations and compliance demonstration, referenced in the attached table (Attachment L).
- b. Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the Cabinet.

Compliance Demonstration Method:

- For compliance demonstration, refer to Section F (requirement 7) for any malfunctions while operating the unit. Compliance with 401 KAR 63:020 is demonstrated while burning natural gas at the designed maximum capacity of the unit. If the unit is modified, modeling of air toxics may be required.

2. Emission Limitations:

Each Stationary engine which meets the criteria given in 40 CFR 63.6590 is subject to the requirements of Subpart ZZZZ and shall comply with applicable emission limitations and compliance demonstration, referenced in the attached table (Attachment L).

3. Testing Requirements:

Each Stationary engine which meets the criteria given in 40 CFR 63.6590 is subject to the requirements of Subpart ZZZZ and shall comply with applicable testing requirements, referenced in the attached table (Attachment L).

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**4. Specific Monitoring Requirements:**

- a. Refer to Section F
- b. Each Stationary engine which meets the criteria given in 40 CFR 63.6590 is subject to the requirements of Subpart ZZZZ and shall comply with applicable monitoring requirements, referenced in the attached table (Attachment L).

5. Specific Recordkeeping Requirements:

- a. Refer to Section F
- b. Each Stationary engine which meets the criteria given in 40 CFR 63.6590 is subject to the requirements of Subpart ZZZZ and shall comply with applicable recordkeeping requirements, referenced in the attached table (Attachment L).

6. Specific Reporting Requirements:

- a. Refer to Section F
- b. Each Stationary engine which meets the criteria given in 40 CFR 63.6590 is subject to the requirements of Subpart ZZZZ and shall comply with applicable reporting requirements, referenced in the attached table (Attachment L).

7. Specific Control Equipment Operating Conditions: None**8. State-Origin Requirements:**

401 KAR 63:021, Existing sources emitting toxic air pollutants.

a. Operating Limitations:

A source in existence on the effective date of 401 KAR 63:021 which was issued a permit pursuant to 401 KAR 50:035 with conditions based on this administrative regulation or 401 KAR 63:022 shall continue to comply with all conditions based on this administrative regulation or 401 KAR 63:022 unless it can demonstrate that a condition is no longer necessary to protect human health and the environment.

b. Emission Limitations: None**c. Reporting Requirements:**

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

9. Alternate Operating Scenarios: None**10. Compliance Schedule: Refer to Section F.9 and Section I.****11. Compliance Certification Requirements Refer to Section F.9 and Section I.**

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**[05] Gas Turbine****Rated heat input capacity**

(based on fuel's lower heating value): Equal to or greater than 10 million Btu/hr constructed, reconstructed, or modified on or before October 3, 1977.

APPLICABLE REGULATIONS:

40 CFR Part 63 Subpart YYYY National Emission Standards for Hazardous Air Pollutants For Stationary Combustion Turbines, applies to stationary combustion turbines which are located at major sources of HAPs and meet the applicability requirements defined in 40 CFR 63.6085 of Subpart YYYY.

401 KAR 63:020, Potentially hazardous matter or toxic substances.

1. Operating Limitations:

- a. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYY and shall comply with applicable operating limitations and compliance demonstration, referenced in the attached table (Attachment J).
- b. Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the Cabinet.

Compliance Demonstration Method:

- For compliance demonstration, refer to Section F (requirement 7) for any malfunctions while operating the unit. Compliance with 401 KAR 63:020 is demonstrated while burning natural gas at the designed maximum capacity of the unit. If the unit is modified, modeling of air toxics may be required.

2. Emission Limitations:

Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYY and shall comply with applicable emission limitations and compliance demonstration, referenced in the attached table (Attachment J).

3. Testing Requirements:

Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYY and shall comply with applicable compliance demonstration requirements, referenced in the attached table (Attachment J).

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**4. Specific Monitoring Requirements:**

- a. Refer to Section F.
- b. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYYY and shall comply with applicable monitoring requirements, referenced in the attached table (Attachment J).

5. Specific Recordkeeping Requirements:

- a. Refer to Section F.
- b. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYYY and shall comply with applicable recordkeeping requirements, referenced in the attached table (Attachment J).

6. Specific Reporting Requirements:

- a. Refer to Section F.
- b. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYYY and shall comply with applicable reporting requirements, referenced in the attached table (Attachment J).

7. Specific Control Equipment Operating Conditions:

- a. Refer to Section F.
- b. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYYY and shall comply with applicable control equipment operating conditions, referenced in the attached table (Attachment J).

8. State-Origin Requirements:

401 KAR 63:021, Existing sources emitting toxic air pollutants.

a. Operating Limitations:

A source in existence on the effective date of 401 KAR 63:021 which was issued a permit pursuant to 401 KAR 50:035 with conditions based on this administrative regulation or 401 KAR 63:022 shall continue to comply with all conditions based on this administrative regulation or 401 KAR 63:022 unless it can demonstrate that a condition is no longer necessary to protect human health and the environment.

b. Emission Limitations:

None

c. Reporting Requirements:

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

9. Alternate Operating Scenarios:

None

10. Compliance Schedule:

Refer to Section F.9 and Section I.

11. Compliance Certification Requirements

Refer to Section F.9 and Section I.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**[06] Gas Turbine**

Rated heat input capacity: Equal to or greater than 10 million Btu/hr (based on the fuel's lower heating value) constructed, reconstructed, or modified after October 3, 1977.

APPLICABLE REGULATIONS:

401 KAR 60:005, Standards of performance for stationary gas turbines, incorporating 40 CFR 60 Subpart GG, Standards of Performance for Stationary Gas Turbines, by reference. If construction of a gas turbine commenced before October 3, 1982 and the heat input at peak load is greater than 10 million BTU/hr (10.7 gigajoules/hr) but less than 100 million BTU/hr (107.2 gigajoules/hr), based on the lower heating value of the fuel, the gas turbine is exempt from the NOx requirements of 40 CFR 60 Subpart GG.

40 CFR Part 63 Subpart YYYY National Emission Standards for Hazardous Air Pollutants For Stationary Combustion Turbines, applies to stationary combustion turbines which are located at major sources of HAPs and meet the applicability requirements defined in 40 CFR 63.6085 of Subpart YYYY.

401 KAR 63:020, Potentially hazardous matter or toxic substances.

1. Operating Limitations:

- a. Pursuant to 40 CFR 60 Subpart GG, the fuel must either have a sulfur content less than or equivalent to 0.8 percent by weight or the flue gas must have sulfur dioxide content less than 0.015 percent by volume at 15 percent oxygen on a dry basis.
- b. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYY and shall comply with applicable operating limitations, referenced in the attached table (Attachment J).
- c. Pursuant to 401 KAR 63:020, persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the Cabinet.

Compliance Demonstration Method:

- Test methods and procedures described in Condition 3 below shall be followed to demonstrate compliance with this limit.
- Compliance shall be demonstrated in accordance with the appropriate test methods, compliance procedures, and/or compliance demonstrations as listed below, referenced in the attached table (Attachment J).

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- For compliance demonstration, refer to Section F (requirement 7) for any malfunctions while operating the unit. Compliance with 401 KAR 63:020 is demonstrated while burning natural gas at the designed maximum capacity of the unit. If the unit is modified, modeling of air toxics may be required.

2. Emission Limitations:

- For natural-gas fired non-regenerative cycle units constructed on or after October 3, 1982, designated for non-emergency use, emissions of nitrogen oxides shall be less than that resulting from the following calculation:

$$STD = 0.0150 * 14.4 / Y + F \quad \text{where}$$

STD = Allowable emissions of NO_x (% by volume at 15% oxygen on a dry basis)

Y = Manufacturer's rated heat rate at peak load (kilojoules per watt hour)

F = NO_x emission allowance for fuel-bound nitrogen, N, as defined in the following table (NO_x % by volume)

N (% by weight)	N ≤ 0.015	0.015 < N ≤ 0.1	0.1 < N ≤ 0.25	N > 0.25
F	0	0.04 * N	0.004 + 0.0067 * (N - 0.1)	0.005

- Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYY and shall comply with applicable emission limitations, referenced in the attached table (Attachment J).

Compliance Demonstration Method:

- As specified in 40 CFR 60.335(c)(1), compliance with the aforementioned limit for NO_x shall be determined by the following formula:

$$NO_x = NO_{xo} * (Pr / Po)^{0.5} * \exp(19 * (Ho - 0.00633) * (288 / Ta)^{1.53} \quad \text{where}$$

NO_x = Emission rate (volume % at 15% oxygen and ISO standard conditions, dry basis) (ppm by volume)

NO_{xo} = Observed concentration (ppm by volume)

Pr = Reference combustor inlet absolute pressure at 101.3 kPa ambient (mm Hg)

Po = Observed combustor inlet absolute pressure at test (mm Hg)

Ho = Observed humidity of ambient air (grams H₂O / gram air)

Ta = Ambient temperature (K)

- Compliance shall be demonstrated in accordance with the appropriate test methods, compliance procedures, and/or compliance demonstrations as listed below, referenced in the attached table (Attachment J).

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**3. Testing Requirements:**

- a. Test methods in 40 CFR 60 Appendix A shall be utilized to conduct the performance tests required by 40 CFR 60.8.
- b. As specified in 40 CFR 60.335(b)(2), the 3-run performance test required by 40 CFR 60.8 must be performed within ± 5 percent at 30, 50, 75, and 90-to-100 percent of peak load or at four evenly-spaced load points in the normal operating range of the gas turbine, including the minimum point in the operating range and 90-to-100 percent of peak load.
- c. Method 20 shall be used to determine the concentration of NO_x, SO₂, and O₂.
- d. Pursuant to 40 CFR 60.335(b)(10), the sulfur content of gaseous fuels shall be measured using ASTM method D 1072-80, D3246-81, 92, 96; D4468-85; or D6667-01 or an alternative test method approved on a case-by-case basis by the Division for Air Quality and the U.S. EPA.
- e. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYYY and testing shall be performed as referenced in the attached table (Attachment J).

4. Specific Monitoring Requirements:

Pursuant to 40 CFR 60.334, Monitoring of operations, the content of sulfur and nitrogen in the fuel shall be monitored, except as specified in paragraph (c) of this section. The frequency of determination of these values shall be as follows:

- a. If a water injection system is used to control NO_x emissions, the Permittee shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fired fuel. This system shall be accurate to within ± 5.0 percent and shall be approved by the Division. [40 CFR 60.334(a)]
- b. If a source has been approved to implement a custom fuel monitoring plan, it must follow this approved compliance demonstration method or may apply to the U.S. Environmental Protection Agency and the Division for a new or modified custom fuel monitoring plan, to be reviewed on a case-by-case basis.
- c. The Permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u). The Permittee shall use one of the sources of information described in 40 CFR 60.334 (h)(3) to make the required demonstration.
- d. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYYY and shall comply with monitoring requirements as referenced in the attached table (Attachment J).

5. Specific Recordkeeping Requirements:

- a. Records of the parameters required by the above Condition 4 shall be kept for the purposes of compliance demonstration.
- b. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYYY and shall comply with recordkeeping requirements as referenced in the attached table (Attachment J).

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:

a. Pursuant to 40 CFR 60.334(j), reports shall be submitted for exceedances of operating and emission limitations, defined for the following averaging times:

Parameter	Averaging Time
Water-to-fuel ratio	One-hour period
Sulfur content	Daily period
Emergency fuel usage	Any emergency period

These reports shall be submitted in accordance with the conditions set forth in Section F.5.

b. Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYY and shall comply with reporting requirements as referenced in the attached table (Attachment J).

7. Specific Control Equipment Operating Conditions:

Each stationary combustion turbine which meets the criteria given in 40 CFR 63.6085 (a) is subject to the requirements of Subpart YYYY and shall comply with control equipment operating conditions as referenced in the attached table (Attachment J).

8. State-Origin Requirements:

401 KAR 63:021, Existing sources emitting toxic air pollutants.

a. Operating Limitations:

A source in existence on the effective date of 401 KAR 63:021 which was issued a permit pursuant to 401 KAR 50:035 with conditions based on this administrative regulation or 401 KAR 63:022 shall continue to comply with all conditions based on this administrative regulation or 401 KAR 63:022 unless it can demonstrate that a condition is no longer necessary to protect human health and the environment.

b. Emission Limitations:

None

c. Reporting Requirements:

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

9. Alternate Operating Scenarios:

None

10. Compliance Schedule:

Refer to Section F.9 and Section I.

11. Compliance Certification Requirements

Refer to Section F.9 and Section I.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

[07] **Glycol Dehydration Process Unit**
(absorption column and subject control equipment, if applicable)

APPLICABLE REGULATIONS:

401 KAR 63:002, (40 CFR Part 63 Subpart HHH), National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, applies to glycol dehydration units operated by natural gas transmission and storage facilities which are major sources of HAPs based on maximum natural gas throughput and meet the applicability requirements defined in 40 CFR 63.1270 of Subpart HHH.

401 KAR 63:020, Potentially hazardous matter or toxic substances.

1. Operating Limitations:

- a. Each Natural Gas Transmission and Storage Facility which meets the requirement of 40 CFR 63.1270, shall comply with the applicable operating standards, referenced in the attached table (Attachment H).
- b. Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the Cabinet.

Compliance Demonstration Method:

- Compliance shall be demonstrated by monitoring, recordkeeping, reporting and testing requirements as listed below, and also referenced in the attached table (Attachment H) under “Glycol dehydration unit standards”, “Recordkeeping and Reporting Requirements”, “Monitoring Requirements”, “Test methods” and “Control equipment requirements”.
- For compliance demonstration, refer to Section F (requirement 7) for any malfunctions while operating the unit. Compliance with 401 KAR 63:020 is demonstrated while burning natural gas at the designed maximum capacity of the unit. If the unit is modified, modeling of air toxics may be required.

2. Emission Limitations:

Each Natural Gas Transmission and Storage Facility which meets the requirement of 40 CFR 63.1270, shall comply with the applicable emission standards, referenced in the attached table (Attachment H).

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**Compliance Demonstration Method:**

- Compliance shall be demonstrated in accordance with the appropriate test methods, compliance procedures, and/or compliance demonstrations as listed below, referenced in the attached table (Attachment H).

3. Testing Requirements:

Each Natural Gas Transmission and Storage Facility which meets the requirement of 40 CFR 63.1270, shall comply with the applicable test methods, referenced in the attached table (Attachment H).

4. Specific Monitoring Requirements:

Each Natural Gas Transmission and Storage Facility which meets the requirement of 40 CFR 63.1270, shall comply with the applicable monitoring requirements, referenced in the attached table (Attachment H).

5. Specific Recordkeeping Requirements:

Each Natural Gas Transmission and Storage Facility which meets the requirement of 40 CFR 63.1270, shall comply with the applicable recordkeeping requirements, referenced in the attached table (Attachment H).

6. Specific Reporting Requirements:

Each Natural Gas Transmission and Storage Facility which meets the requirement of 40 CFR 63.1270, shall comply with the applicable reporting requirements, referenced in the attached table (Attachment H).

7. Specific Control Equipment Operating Conditions:

Each Natural Gas Transmission and Storage Facility which meets the requirement of 40 CFR 63.1270, shall comply with the applicable control equipment requirements, referenced in the attached table (Attachment H).

8. State-Origin Requirements:

For sources not subject to Subpart HHH:
401 KAR 63:021, Existing sources emitting toxic air pollutants.

a. Operating Limitations:

A source in existence on the effective date of 401 KAR 63:021 which was issued a permit pursuant to 401 KAR 50:035 with conditions based on this administrative regulation or 401 KAR 63:022 shall continue to comply with all conditions based on this administrative regulation or 401 KAR 63:022 unless it can demonstrate that a condition is no longer necessary to protect human health and the environment.

b. Emission Limitations:

None

c. Reporting Requirements:

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

9. **Alternate Operating Scenarios:** None
10. **Compliance Schedule:** Refer to Section F.9 and Section I.
11. **Compliance Certification Requirements**
- a. Refer to Section F.9 and Section I
 - b. Each Permittee of a source subject to Subpart HHH shall submit a Notification of Compliance Status Report as required under 40 CFR 63.9 (h) within 180 days after the compliance date specified in 40 CFR 63.1270 (d) (1). The Notice of Compliance status report shall include:
 - i. The information required under 40 CFR 63.9 (h).
 - ii. The information specified in paragraphs (d) (1) through (d) (10) of 40 CFR 63.1285.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**[08] Storage Vessels for Volatile Organic Liquids (VOL)**

Storage Vessels with capacity greater than or equal to 75 m³ (19,810 gallons) for which construction, reconstruction, or modification commenced after July 23, 1984.

APPLICABLE REGULATIONS:

401 KAR 60:005 incorporating 40 CFR 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which construction, reconstruction, or modification commenced after July 23, 1984, by reference.

401 KAR 63:020, Potentially hazardous matter or toxic substances.

1. Operating Limitations:

- a. The tanks shall be operated in accordance with 40 CFR 60.112b, Standards for volatile organic compounds, referenced in the attached table (Attachment E) under “VOC Operating/Emission Standards”.
- b. Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the Cabinet.

Compliance Demonstration Method:

- Compliance shall be demonstrated by monitoring, recordkeeping and testing requirements as listed below, referenced in the attached table (Attachment E) under “VOC Operating/Emission Standards”, “Monitoring and Recordkeeping Requirements”, “Reporting Requirements” and “Testing Requirements”.
- For compliance demonstration, refer to Section F (requirement 7) for any malfunctions while operating the unit. Compliance with 401 KAR 63:020 is demonstrated while burning natural gas at the designed maximum capacity of the unit. If the unit is modified, modeling of air toxics may be required.

2. Emission Limitations:

None

3. Testing Requirements:

Testing shall be performed in accordance with 40 CFR 60.113b, Testing and Procedures, referenced in the attached table (Attachment E) under “Testing Requirements”.

4. Specific Monitoring Requirements:

Monitoring shall be performed in accordance with 40 CFR 60.113b, Testing and procedures,

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

40 CFR 60.115b, Reporting and Recordkeeping requirements, and 40 CFR 60.116b, Monitoring of operations, referenced in the attached table (Attachment E).

5. **Specific Recordkeeping Requirements:**

Recordkeeping shall be performed in accordance with 40 CFR 60.113b, Testing and procedures, 40 CFR 60.115b, Reporting and Recordkeeping requirements, and 40 CFR 60.116b, Monitoring of operations, referenced in the attached table (Attachment E).

6. **Specific Reporting Requirements:**

Reporting shall be performed in accordance with 40 CFR 60.113b, Testing and procedures, 40 CFR 60.115b, Reporting and Recordkeeping requirements, and 40 CFR 60.116b, Monitoring of operations, referenced in the attached table (Attachment E).

7. **Specific Control Equipment Operating Conditions:**

Control equipment shall be operated in accordance with 40 CFR 60.112b, Standards for volatile organic compounds, referenced in the attached table (Attachment E) under "VOC Operating/Emission Standards".

8. **State-Origin Requirements:**

401 KAR 63:021, Existing sources emitting toxic air pollutants.

a. **Operating Limitations:**

A source in existence on the effective date of 401 KAR 63:021 which was issued a permit pursuant to 401 KAR 50:035 with conditions based on this administrative regulation or 401 KAR 63:022 shall continue to comply with all conditions based on this administrative regulation or 401 KAR 63:022 unless it can demonstrate that a condition is no longer necessary to protect human health and the environment.

b. **Emission Limitations:**

None

c. **Reporting Requirements:**

The first six (6) month report (required by Section F.5) after the source becomes subject to this permit shall include an applicability determination for this state-origin requirement.

9. **Alternate Operating Scenarios:**

None

10. **Compliance Schedule:**

Refer to Section F.9 and Section I.

11. **Compliance Certification Requirements**

Refer to Section F.9 and Section I.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**[09] Storage Vessels for Petroleum Liquids**

All storage vessels for petroleum liquids which have storage capacity greater than 580 gallons and commenced before April 9, 1972 and which are located in a county or portion of a county which is designated ozone nonattainment, for any nonattainment classification except marginal, under 401 KAR 51:010, Attainment status designations.

APPLICABLE REGULATIONS:

401 KAR 61:050, Existing storage vessels for petroleum liquids.

The table in Attachment F contains applicable requirements for facilities subject to 401 KAR 61:050, Existing storage vessels for petroleum liquids. The source shall comply with all applicable requirements identified in the table for affected facilities located at the source.

1. Operating Limitations:

Affected facilities under 401 KAR 61:050 shall operate in accordance with the requirements referenced in the attached table (Attachment F).

2. Emission Limitations:

None

3. Testing Requirements:

Affected facilities under 401 KAR 61:050 shall be tested in accordance with the requirements referenced in the attached table (Attachment F).

4. Specific Monitoring Requirements:

Affected facilities under 401 KAR 61:050 shall be monitored in accordance with the requirements referenced in the attached table (Attachment F).

5. Specific Recordkeeping Requirements:

Affected facilities under 401 KAR 61:050 shall keep records in accordance with the requirements referenced in the attached table (Attachment F).

6. Specific Reporting Requirements:

Affected facilities under 401 KAR 61:050 shall submit reports in accordance with the requirements referenced in Section F.

7. Specific Control Equipment Operating Conditions:

Affected facilities under 401 KAR 61:050 shall operate in accordance with the requirements referenced in the attached table (Attachment F).

8. State-Origin Requirements

None

9. Alternate Operating Scenarios:

None

10. Compliance Schedule:

Refer to Section F.9 and Section I.

11. Compliance Certification Requirements

Refer to Section F.9 and Section I.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**[10] Storage Vessels for Petroleum Liquids**

- (1) All the storage tanks which are located in a county or portion of a county which is designated ozone nonattainment under 401 KAR 51:010 or any other county and is a part of a major source of volatile organic compounds and have storage capacity (V) as described below:
- $580 \text{ gal} \leq V \leq 40,000 \text{ gal}$, commenced after April 9, 1972 and prior to July 24, 1984
 - $580 \text{ gal} \leq V < 10,567 \text{ gal}$, commenced after July 24, 1984
- (2) $V > 40,000 \text{ gal}$, commenced on or after April 9, 1972 and prior to July 24, 1984

APPLICABLE REGULATIONS:

401 KAR 59:050, New storage vessels for petroleum products.

The table in Attachment G contains applicable requirements for facilities subject to 401 KAR 59:050, New storage vessels for petroleum liquids. The source shall comply with all applicable requirements identified in the table for affected facilities located at the source.

1. **Operating Limitations:**
Affected facilities under State Regulation 401 KAR 59:050 shall operate in accordance with the requirements referenced in the attached table (Attachment G).
2. **Emission Limitations:** None
3. **Testing Requirements:**
Affected facilities under State Regulation 401 KAR 59:050 shall be tested in accordance with the requirements referenced in the attached table (Attachment G).
4. **Specific Monitoring Requirements:**
Affected facilities under State Regulation 401 KAR 59:050 shall be monitored in accordance with the requirements referenced in the attached table (Attachment G).
5. **Specific Recordkeeping Requirements:**
Affected facilities under State Regulation 401 KAR 59:050 shall keep records in accordance with the requirements referenced in the attached table (Attachment G).
6. **Specific Reporting Requirements:**
Affected facilities under State Regulation 401 KAR 59:050 shall submit reports in accordance with the requirements referenced in the attached table (Attachment G).
7. **Specific Control Equipment Operating Conditions:**
Affected facilities under State Regulation 401 KAR 59:050 shall operate in accordance with the requirements referenced in the attached table (Attachment G).
8. **State-Origin Requirements** None
9. **Alternate Operating Scenarios:** None

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

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|-----|---|-------------------------------------|
| 10. | <u>Compliance Schedule:</u> | Refer to Section F.9 and Section I. |
| 11. | <u>Compliance Certification Requirements</u> | Refer to Section F.9 and Section I. |

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**Additional Requirements**

- 1) Attachment C is a table of applicable requirements for facilities subject to 401 KAR 60:630 (40 CFR Subpart KKK) Standards of Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants. The Permittee shall comply with all applicable requirements identified in the table for the components, emission points and affected facilities located at the source.
- 2) Attachment D contains two tables of applicable requirements for facilities subject to 401 KAR 60:640 (40 CFR Subpart LLL) Standards of Performance for Onshore Natural Gas Processing: SO₂ Emissions. One table addresses Sweetening Units utilizing Sulfur Recovery; the other table addresses Sweetening Units not utilizing Sulfur Recovery. The Permittee shall comply with all applicable requirements identified in the table for the facility design located at the source.
- 3) Attachment I is a table of applicable requirements for facilities subject to 40 CFR 64 Compliance Assurance Monitoring. The Permittee shall comply with all applicable requirements identified in the table for the components, emission points and affected facilities located at the source.
- 4) Attachment K is a table of applicable requirements for facilities subject to 40 CFR 63.6085 (40 CFR 63 Subpart DDDDD) National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters. The Permittee shall comply with all applicable requirements identified in the table for the components, emission points and affected facilities located at the source.

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. Although these activities are designated as insignificant the permittee must comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

- 1) Indirect heat exchanger or electrical generator (used for on-site power consumption) solely fired with natural gas with a rated heat input capacity less than 10 million Btu per hour
- 2) Anti-freeze usage for compressor engine cooling
- 3) Metal degreaser (except for those halogenated solvent cleaners subject to the MACT standard in 40 CFR 63, Subpart T)
- 4) Emergency generators less than 20 hp potentially operated continuously or less than 350 hp operated 500 hours per year or less
- 5) Valve operators
- 6) Relief valves
- 7) Purge gas
- 8) Panel board devices
- 9) Meter testing
- 10) Air movers
- 11) Pipeline blowdowns
- 12) Changing orifice plates
- 13) Control valves
- 14) Emergency shutdowns
- 15) Dead weight testing
- 16) Blowing drips
- 17) Crankcase vents
- 18) Fuel gas system vents
- 19) Gas operated pockets
- 20) Vessel blowdowns
- 21) Compressor rod packing leakage
- 22) Odorant loading
- 23) Unit block valve leakage
- 24) Calibrating gas sniffers
- 25) Compressor valve cap leakage
- 26) Recip fuel valve packing leakage
- 27) Drum storage
- 28) Compressor case and doghouse vents
- 29) Small gasoline portable compressors
- 30) Meter tube inspections
- 31) Auxiliary air compressors
- 32) Compressor blowdown
- 33) Storage tanks not otherwise covered in this permit

SECTION D - SOURCE WIDE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

None

SECTION E - SOURCE CONTROL EQUIPMENT OPERATING REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b-IV-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements;
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b-IV-2 and 1a-8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit;
 - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Sections 1b-V-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7 above) to the Regional Office listed on the front of this permit within 30 days. Deviations from permit requirements, including those previously reported under F.7 above, shall be included in the semiannual report required by F.6 [Sections 1b-V, 3 and 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period.
 - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
 - f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications shall be mailed to the following addresses:

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

Division for Air Quality
Frankfort Regional Office
643 Teton Trail, Suite B
Frankfort, KY 40601-1758

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
200 Fair Oaks Lane, 1st Floor
Frankfort, KY 40601.

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.
11. Pursuant to Section VII.3 of the policy manual of the Division for Air Quality as referenced by Regulation 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five (45) days after the completion of the fieldwork.
12. Natural gas shall be the only fuel burned in the operation of combustion equipment identified as significant points of emission. The Permittee shall record the amount of natural gas burned on a monthly basis, with the exception of those Indirect Heat Exchangers commenced after June 9, 1989 that must record the natural gas burned on a daily basis. Furthermore, the Permittee shall maintain all records of any changes in equipment or operation. The records required by the Division for Air Quality shall be retained at the source authorized by this permit for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division. These records shall be submitted to the Division with the Compliance Certification Form. If the monitoring devices necessary to assure compliance with this requirement are not in place at the issuance of this permit, follow the compliance plan in Section I.

SECTION G - GENERAL PROVISIONS

1. General Compliance Requirements

- a. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 Section 3(1)(b) and a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act). Noncompliance with this permit is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].
- b. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a-6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - (1) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
 - (2) The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;
 - (4) New requirements become applicable to a source subject to the Acid Rain Program.

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

- d. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Sections 1a- 7 and 8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:020 Section 3(1)(c)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

- f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].
- g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- i. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens. [Section 1a-15-b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3) 2.].
- l. This permit does not convey property rights or exclusive privileges [Section 1a-9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- m. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.
- n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3) 4.].
- o. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3) 1.].

SECTION G - GENERAL PROVISIONS (CONTINUED)

- p. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
- q. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
- (1) Applicable requirements that are included and specifically identified in the permit and
 - (2) Non-applicable requirements expressly identified in this permit.
- r. The applicability of the following regulations has been investigated and found not to apply for the following reasons:

Regulation	Reasoning
State Regulation 401 KAR 59:005, incorporating 40 CFR 60 Subpart Db, Standards of performance for industrial-commercial-institutional steam generating units, by reference.	Construction date and size restrictions

2. Permit Expiration and Reapplication Requirements

- a. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
- b. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].

3. Permit Revisions

- a. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).

SECTION G - GENERAL PROVISIONS (CONTINUED)

- b. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.
4. Construction, Start-Up, and Initial Compliance Demonstration Requirements
- a. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.
 - b. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, with a copy to the Division's Frankfort Central Office, notification of the following:
 - (1) The date when construction commenced.
 - (2) The date of start-up of the affected facilities listed in this permit.
 - (3) The date when the maximum production rate specified in the permit application was achieved.
 - c. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.
 - d. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section I of this permit or order of the Cabinet.
 - e. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. Testing must also be conducted in accordance with General Provisions G.5 of this permit.

SECTION G - GENERAL PROVISIONS (CONTINUED)

- f. Terms and conditions in this permit established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.

5. Testing Requirements

- a. Pursuant to 401 KAR 50:045 Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least Thirty (30) days prior to the test.
- b. Pursuant to 401 KAR 50:045 Section 5, in order to demonstrate that a source is capable of complying with a standard at all times, any required performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirements on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.
- c. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

6. Acid Rain Program Requirements

- a. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.
- b. The permittee shall comply with all applicable requirements and conditions of the Acid Rain Permit and the Phase II permit application (including the Phase II NOx compliance plan and averaging plan, if applicable) incorporated into the Title V permit issued for this source. The source shall also comply with all requirements of any revised or future acid rain permit(s) issued to this source.

SECTION G - GENERAL PROVISIONS (CONTINUED)**7. Emergency Provisions**

- a. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - (1) An emergency occurred and the permittee can identify the cause of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - (4) Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
 - (5) This requirement does not relieve the source of other local, state or federal notification requirements.
- b. Emergency conditions listed in General Condition G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
- c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].
- d. The Permittee may temporarily replace a compressor during emergency incidents which interrupt the crucial supply of natural gas to the public, contingent upon the following conditions:
 - a) The temporary compressor(s) may operate solely while a compressor is being repaired or refurbished. For this requirement, temporary shall not be in excess of ninety (90) days unless prior approval is obtained from the Division.
 - b) The total operating capacity of the temporary units shall not exceed the capacity of the replaced unit.
 - c) If applicable, credible performance emission test data that verify the rates of emissions from the temporary compressor(s), in accordance with the provisions of New Source Performance Standards, shall be submitted to the Division within five (5) days of the substitution for approval.
 - d) Notification of the following data must be submitted to the Director within five (5) days of the substitution:
 - i) Identification (emission source number) of the failed turbine(s),
 - ii) Design Parameters of the temporary compressor(s),
 - iii) Predicted operating time and emissions of the temporary compressor(s), and
 - iv) Certification of the temporary compressor(s) by a responsible official.

SECTION G - GENERAL PROVISIONS (CONTINUED)

8. Ozone Depleting Substances

- a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - (1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - (2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - (3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
 - (5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - (6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
- b. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

9. Risk Management Provisions

- a. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 1515
Lanham-Seabrook, MD 20703-1515.

- b. If requested, submit additional relevant information to the Division or the U.S. EPA.

SECTION H – ALTERNATE OPERATING SCENARIOS

None

SECTION I - COMPLIANCE SCHEDULE

1. If the source is required to install flow monitoring equipment to comply with the requirements of Section F.10, the source must initiate the purchase of equipment within 30 days of requesting coverage under the general permit and install the equipment within 60 days of requesting coverage under the general permit. Exceptions to this time frame will be considered by the Division on a case-by-case basis. To implement any new monitoring, recordkeeping or reporting requirements included herein, the Division hereby authorizes a ninety (90) day compliance schedule, beginning with the date coverage was requested under the general permit.
2. For non-complying units, a proposed compliance schedule shall be submitted to the Division in accordance with 401 KAR 52:020 Section 8 (b) within 90 days of requesting coverage under the general permit. The Division will review and approve the schedule on an individual source basis. Compliance with the terms and conditions of this compliance schedule shall be certified annually at the time of the annual compliance certification, to the Division for Air Quality and to the United States Environmental Protection Agency when compliance has been achieved. The compliance certification shall include the following:
 - a) The identification of the permit term or condition in this Section that is the basis of the certification;
 - b) The compliance status;
 - c) Whether compliance is continuous or intermittent; and,
 - d) The method used for determining the compliance status, currently and over the reporting period pursuant to State Regulation 52:020, Section 21.